

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of)	
)	
GILL)	Group Art Unit: 2627
)	
Application No.: 10/780,978)	Examiner: KLIMOWICZ, William
)	
Filed: 02/18/2004)	Attorney Docket No.
)	HIT1P069/HSJ920030276US1
For: SELF-PINNED CPP SENSOR)	
USING FE/CR/FE STRUCTURE)	Date: October 11, 2006
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56 AND 1.97(c)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The reference(s) listed in the attached PTO Form 1449, cop(ies) of which is attached (when necessary), may be material to examination of the above-identified patent application. Applicants submit the reference(s) in compliance with their duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to make the reference(s) of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that the reference(s) indeed constitutes prior art.

This Information Disclosure Statement is being filed after the mailing date of a non-final Office Action. Accordingly, applicants are including payment in the amount of \$180.00 for the

fee due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any additional fees are due, the Commissioner is hereby authorized to charge such fees or credit any overpayment to Deposit Account 50-2587 (Order No. HSJ920030276US1).

Respectfully submitted,
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Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty. Docket No. HIT1P069/ HSI920030276US1	Application No.: 10/780,978
	Applicant: H. Gill	
	Filing Date: 2/18/2004	Group Art Unit: 2627

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class
	1	2003/0137784	07/2003	Noma	360	324.11
	2	2003/0039081	02/2003	Seigler et al.	360	324.11
	3	6,515,573	02/2003	Dong et al.	338	32
	4	6,313,973	11/2001	Fuke et al.	360	324.1
	5	6,271,998	08/2001	Coehoorn et al.	360	324.2
	6	6,105,237	08/2000	Gill	29	603.08
	7	6,052,263	04/2000	Gill	360	113
	8	6,023,395	02/2000	Dill et al.	360	113
	9	5,801,984	09/1998	Parkin	365	158
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	11	6,341,053	01/2002	Nakada et al.	360	324.2
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	13	2002/0154457	10/2002	Hornig et al.	360	324.12
	14	2003/0030945	02/2003	Heinonen et al.	360	324.2
	15	2003/0035256	02/2003	Hayashi et al.	360	324.12
	16	2003/0227724	12/2003	Li et al.	360	324.12
	17	2004/0246776	12/2004	Covington	365	173
	18	2005/0122635	06/2005	Freitag et al.	360	324.11

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Translation	
						Yes	No
	20	2001274477	2001-10-05	JP	H01L	43/08	
	21						
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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	24	Wu, Yihong et al., "Antiferromagnetically coupled hard/Ru/soft layers and their applications in spin valves", Applied Physics Letters, Vol. 80, No. 23, June 10, 2002
	25	Seigler, Michael A. et al., "Use of a permanent magnet in the synthetic antiferromagnet of a spin-valve", Journal of Applied Physics, Vol. 91, No. 4, February 15, 2002
	26	Copy of Office Action from US 10/781,232 mailed 7/6/2006
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.